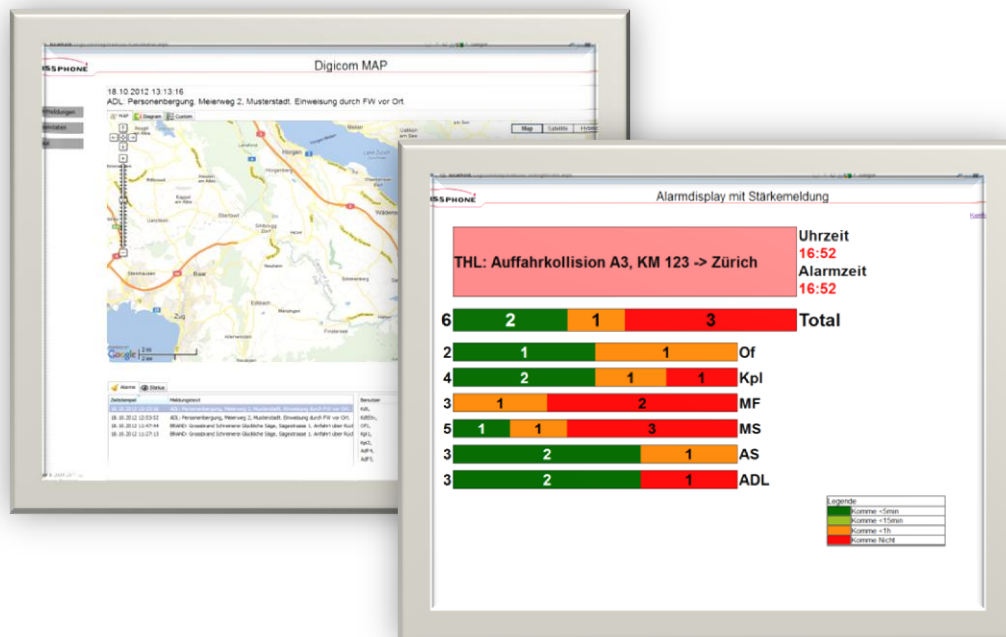


# Digicom MAP

User manual - master data management and station display for version 1.6.1



## Introduction

Digicom MAP is part of a RES.Q solution for alarms with confirmation.

It has been developed in-house by Swissphone for the confirmation server (see Fig. 1) and comprises the following functional elements

- R module as the interface to the RES.Q terminal via GSM
- Database with the master data on the terminals, forces and their structure
- Web application with user interface for displaying confirmations and master data management

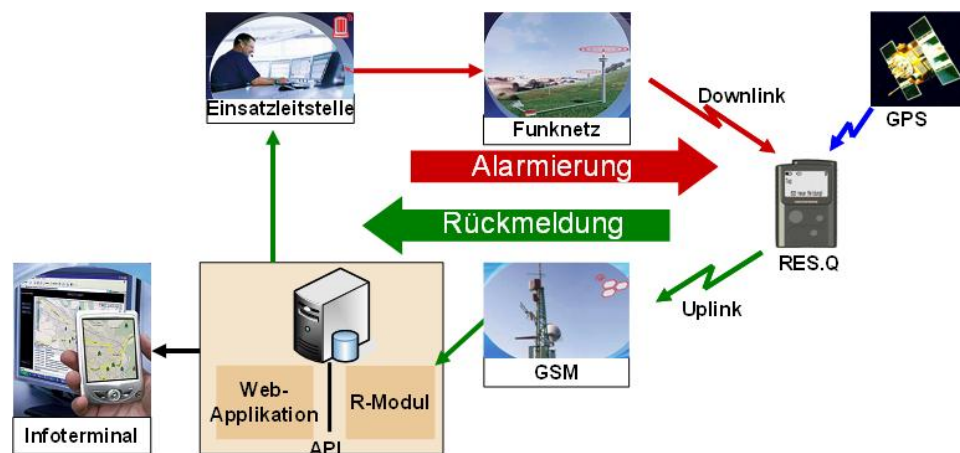


Fig. 1: General overview of RES.Q solution "Alarms with confirmation"

### Digicom MAP specifications

- Confirmations received and processed
- Master data database and management
- Confirmations displayed in a table as well as on the map as an option
- Option of exporting the alarms list
- Status messages displayed in a table as well as on the map as an option
- Option of exporting the current status messages
- Strength message: analysis of the confirmations, displayed as a bar chart
- Status messages: analysis of the active status profiles, displayed as a bar chart
- Option: Alarm calls received directly from the POCSAG network and displayed immediately via an additional module

### Use in fire stations

The strength message with confirmations displayed as a bar chart is specially designed for use in fire stations. The information is shown on a large display as a preference. A purely web-based solution and stand-alone solutions are available. Forwarding/connection to the control centre is dispensed with. This simplifies the system structure as no action is needed from the dispatch system.

## Changes in comparison with Digicom MAP 1.4 version

- Bar chart display under *Confirmations*, *Diagram* for statistical analysis works in the same way as the alarms display
- If there are no alarms, availability display (pager profiles) on the station display via the *Device profile* screen. Up to 8 profiles can be defined
- Display and analysis of up to 8 individual acknowledgements via the *Acknowledgements* screen
- Time span of the alarm summary can be configured via the *Configuration* screen
- Time span of the alarm display can be configured via the *Configuration* screen
- POCSAG font can be set via the *Customer* screen
- The Digicom MAP language can be customised on a user-specific basis via the *Users* screen
- Export functions on the basis of XML/XSD of master data, alarm list, and actual profiles

# Contents

Introduction .....	2
Changes in comparison with Digicom MAP 1.4 version .....	3
1. General conventions.....	9
1.1 Names of elements .....	9
1.2 Warnings .....	9
1.3 Information .....	9
2. Field and button names .....	10
2.1 General.....	10
2.2 Pushbuttons .....	10
2.2.1 New .....	10
2.2.2 Save .....	10
2.2.3 Edit .....	11
2.2.4 Cancel .....	11
2.2.5 Delete .....	11
3. Technical requirements .....	12
3.1 Hosting .....	12
3.2 Operating the station display.....	12
3.2.1 Minimum hardware required.....	12
3.2.2 Minimum software required .....	12
4. Installing Digicom MAP.....	13
4.1 Browser security settings .....	13
4.1.1 JavaScript.....	13
4.1.2 Information on security messages when loading the map view.....	13
5. Using Digicom MAP.....	14
5.1 Opening the web interface .....	14
5.1.1 Hosting with Swissphone Telecom AG .....	14
5.1.2 Hosting with a different system provider .....	14
5.1.3 Hosting as an autonomous solution in the fire station.....	14
5.2 Logging on.....	14
5.2.1 Login data, administrator.....	15
5.2.2 Login data, write access .....	15
5.2.3 Login data, read access .....	15
5.3 Alarms with confirmation .....	15
5.4 Status queries and status messages .....	16
5.4.1 Exporting the status messages .....	17

5.5	Alarm messages.....	18
5.5.1	Exporting the alarm list.....	19
5.6	Strength message/availability report.....	20
5.6.1	Strength message.....	20
5.6.2	Availability report.....	21
6.	Master data management.....	22
6.1	Digicom MAP management quick reference guide.....	23
6.1.1	Recommended application workflow.....	23
6.1.2	Preparing personal details and alarm data.....	24
6.1.2.1	Managing <i>terminals</i> (RES.Q pagers).....	24
6.1.2.2	Managing <i>forces</i> (device users).....	24
6.1.2.3	Creating <i>functions</i> .....	24
6.1.2.4	<i>Group RICs</i> – assigning the RICs and forces to the groups.....	24
6.1.2.5	Other functions.....	24
7.	Reference manual.....	25
7.1	Creating a new customer.....	25
7.1.1	Company*.....	26
7.1.2	Service.....	26
7.1.2.1	BackChannelNoMap.....	27
7.1.2.2	BackChannelSmallMap.....	27
7.1.2.3	BackChannelBigMap.....	28
7.1.2.4	StrengthView.....	28
7.1.3	Position IMASYS Account.....	29
7.1.4	Position IMASYS Password.....	29
7.1.5	Info IMASYS Account.....	29
7.1.6	Info IMASYS Password.....	29
7.1.7	Locator Account.....	29
7.1.8	Locator Password.....	29
7.1.9	Windows user.....	29
7.1.10	Inbound Keyword/Modem.....	29
7.1.11	License.....	29
7.1.12	Refresh Rate.....	30
7.1.13	Position as aged.....	30
7.1.14	Start Position Latitude / Longitude / Zoom*.....	30
7.1.14.1	Large map window, 5km grid (Start Position Zoom: 10).....	30
7.1.14.2	Large map window, 1km grid (Start Position Zoom: 13).....	30
7.1.15	Language.....	30
7.1.16	Character set.....	30
7.1.17	Various.....	31
7.1.18	ForeignId.....	31
7.1.19	Logo.....	31
7.1.20	Symbols.....	31
7.2	Users.....	32
7.2.1	Last Name*.....	32

7.2.2	First Name .....	32
7.2.3	Function .....	32
7.2.4	Department .....	32
7.2.5	User Name* .....	33
7.2.6	Password* .....	33
7.2.7	Message Sender Name .....	33
7.2.8	Language .....	33
7.2.9	Rights .....	33
7.2.9.1	Read .....	33
7.2.9.2	Write .....	33
7.2.9.3	Administrator .....	34
7.2.10	Status .....	34
7.2.10.1	Active .....	34
7.2.10.2	Blocked .....	34
7.2.11	Information Intervals .....	34
7.2.12	Send Strength Message .....	34
7.3	Additional users .....	34
7.4	Configuration .....	35
7.4.1	Time span for message mapping .....	35
7.4.2	Time span for strength analysis display .....	35
7.4.3	Language .....	35
7.5	Terminals .....	36
7.5.1	Description* .....	36
7.5.2	Phone No. ....	36
7.5.3	Serial Number .....	36
7.5.4	Status .....	36
7.5.4.1	Active .....	36
7.5.4.2	Inactive .....	36
7.5.5	Various .....	37
7.5.6	ForeignId .....	37
7.6	Forces .....	37
7.6.1	Last Name .....	37
7.6.2	First Name .....	37
7.6.3	Mobile .....	37
7.6.4	Pager No. ....	37
7.6.5	Terminal .....	38
7.6.6	(Link) Go to terminal .....	38
7.6.7	Status .....	38
7.6.7.1	Active .....	38
7.6.7.2	Inactive .....	38
7.6.8	Various .....	38
7.6.9	ForeignId .....	38
7.7	Group RIC .....	39
7.7.1	Group Name .....	39
7.7.2	RICs .....	39

7.7.3	Sub Address .....	39
7.7.4	AdC.....	39
7.7.5	Pattern .....	40
7.7.6	ForeignId .....	40
7.7.7	Entering members .....	40
7.7.8	Entering managers .....	40
7.7.9	(Link) Edit Group Device .....	41
7.8	RICs.....	41
7.8.1	RICs.....	41
7.8.2	Sub Address .....	42
7.8.3	Entering members .....	42
7.9	Functions .....	42
7.9.1	Function .....	42
7.9.2	Priority .....	43
7.9.3	Entering members .....	43
7.10	Acknowledgements .....	43
7.10.1	Index .....	44
7.10.2	Active .....	44
7.10.3	Text.....	44
7.10.4	Symbol.....	44
7.10.5	Color .....	44
7.10.6	Unavailable .....	44
7.11	Device profile.....	45
7.11.1	Deactivate strength analysis display .....	45
7.11.2	ID .....	45
7.11.3	Text.....	45
7.11.4	Color .....	45
7.12	Possible Alarms.....	46
7.12.1	Group Name .....	46
7.12.2	RICs.....	46
7.12.3	Alarm Text .....	46
7.12.4	Timeout.....	46
7.12.5	Functions .....	47
7.13	Networks.....	47
7.13.1	Network Name.....	47
7.13.2	Number .....	47
7.14	Group Structure .....	47
7.14.1	Export .....	47
7.15	Import Core Data.....	47
7.16	Search .....	47

## Illustrations

Fig. 1: General overview of RES.Q solution "Alarms with confirmation" .....	2
Fig. 2: Digicom MAP GUI .....	10
Fig. 3: Pushbuttons for entering/editing/deleting entries .....	10
Fig. 4: Digicom MAP homepage .....	14
Fig. 5: Display of the alarms and confirmations .....	15
Fig. 6: Status display .....	16
Fig. 7: Export function with calendar .....	17
Fig. 8: List of alarms (overview) .....	18
Fig. 9: Export of alarm list .....	19
Fig. 10: Alarm display with strength message .....	20
Fig. 11: Alarm display with availability report .....	21
Fig. 12: Excerpt from the master data management menu .....	22
Fig. 13: Recommended Digicom MAP application workflow .....	23
Fig. 14: Alarm display with strength message .....	25
Fig. 15: <i>Customers</i> screen .....	26
Fig. 16: Backchannel without map .....	27
Fig. 17: Backchannel with small map .....	27
Fig. 18: Backchannel with big map .....	28
Fig. 19: Strength view display .....	28
Fig. 20: <i>Customer</i> screen .....	32
Fig. 21: <i>Configuration</i> screen .....	35
Fig. 22: <i>Manage Terminals</i> screen .....	36
Fig. 23: <i>Manage Forces</i> screen .....	37
Fig. 24: <i>Group RICs</i> screen .....	39
Fig. 25: <i>Manage Terminals</i> screen .....	41
Fig. 26: <i>Functions</i> screen .....	42
Fig. 27: <i>Acknowledgements</i> screen .....	43
Fig. 29: Assignment in the PSW .....	44
Fig. 28: Assignment in Digicom MAP .....	44
Fig. 30: Assignment in Digicom MAP .....	45
Fig. 31: Assignment in the PSW .....	45



## 1. General conventions

### 1.1 Names of elements

Names of elements of the software are written in *cursive* in this manual.

### 1.2 Warnings



Actions which could result in damage to the software or hardware or that have an effect on the correct function of the software are marked with a danger symbol and a red frame.

### 1.3 Information



Information and special tips are marked with an information symbol and a blue frame.

## 2. Field and button names

### 2.1 General

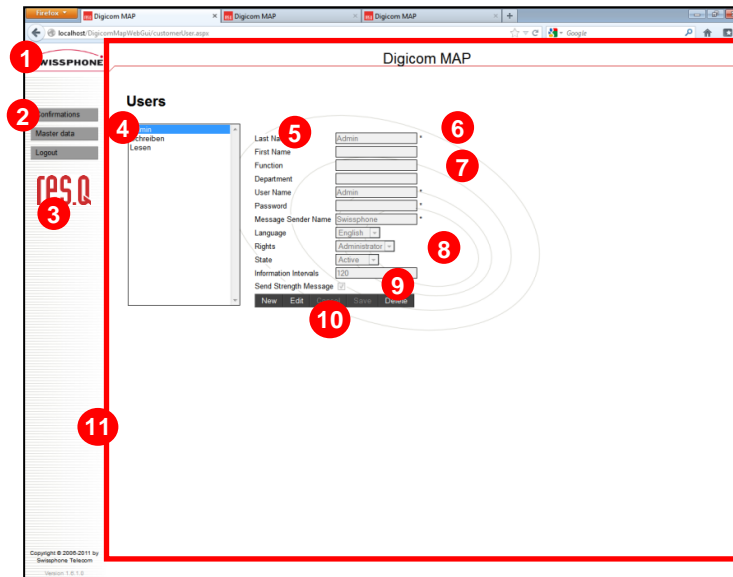


Fig. 2: Digicom MAP GUI

1. Hidden pushbutton
2. Pushbutton
3. Image (graphic)
4. Selection list
5. Field name
6. Mandatory input field (flagged with an \* (asterisk))
7. Input field
8. Dropdown list
9. Checkbox
10. Pushbutton
11. Form

### 2.2 Pushbuttons

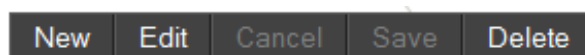


Fig. 3: Pushbuttons for entering/editing/deleting entries

Pushbuttons with white writing are active and can be used. Pushbuttons with grey writing are inactive and cannot be used.

#### 2.2.1 New

Creates a new resource.

#### 2.2.2 Save

Saves the data entered.

### 2.2.3 Edit

Opens the selected, existing data record for editing. The changes made are only adopted after *Save* has been pressed.

### 2.2.4 Cancel

Cancels the operation.

If the user wants to add a new resource, the data on the form that has already been entered is discarded. If the user wants to edit existing data, the changes to the data record are not adopted.

### 2.2.5 Delete

Deletes the selected data record from the database.



The data is deleted without a query after *Delete* has been pressed.

## 3. Technical requirements

### 3.1 Hosting

For more information on the technical requirements for hosting the Digicom MAP web services, please refer to the *Digicom MAP: Super User* manual.

### 3.2 Operating the station display

#### 3.2.1 Minimum hardware required

Computer with network access to the Digicom MAP server and monitor output.  
Large display with appropriate monitor input (e.g. VGA, DVI, HDMI).

#### 3.2.2 Minimum software required

Network-compatible and internet-compatible operating system with web browser. The web browser must support XHTML 1.1 and JavaScript.

## 4. Installing Digicom MAP

Digicom MAP is a server-based programme. This means that only a browser has to be installed on the working computer. Every other access to Digicom MAP is made via the browser.

### 4.1 Browser security settings

#### 4.1.1 JavaScript

The browser must support JavaScript and have activated it. In some circumstances, Microsoft calls this function *Active Scripting*.

To activate JavaScript, please refer to the help function of the browser concerned and any support forums operated by the manufacturer of the browser.

#### 4.1.2 Information on security messages when loading the map view

When logging on to Digicom MAP, a security message may appear while the map is loading. This message points out that contents of the website are not transmitted via a secure HTTPS connection. The user must respond to the message, enabling all website contents to be loaded.



The warning about website contents that are not transferred via an HTTPS connection comes from the map view (Google Maps).

However, the account and master data cannot be read in plain text at any time as this data is not sent to Google Maps.

## 5. Using Digicom MAP

### 5.1 Opening the web interface

Using the browser, access the Digicom MAP internet address of the service provider or of the local system.

#### 5.1.1 Hosting with Swissphone Telecom AG

<https://digicom-map-demo.swissphone.com/DigicomMapWebGui/>

#### 5.1.2 Hosting with a different system provider

Please ask the system provider for the correct URL.

URL: \_\_\_\_\_

#### 5.1.3 Hosting as an autonomous solution in the fire station

The default setting for an autonomous solution in the fire station is

<http://localhost/DigicomMapWebGui/>

Your system administrator may have specified a different address

URL: \_\_\_\_\_

### 5.2 Logging on

The *Username*, the *Password* and the *Company* must be entered in order to log on. The operation is then completed by pressing *Login*.

These values are available from your system provider or administrator.

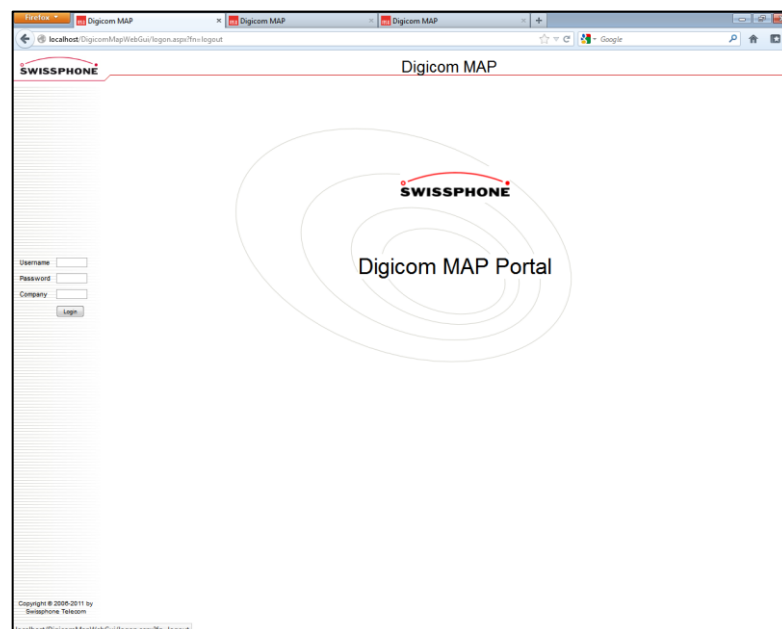


Fig. 4: Digicom MAP homepage

### 5.2.1 Login data, administrator

User \_\_\_\_\_  
 Password \_\_\_\_\_  
 Company \_\_\_\_\_

### 5.2.2 Login data, write access

User \_\_\_\_\_  
 Password \_\_\_\_\_  
 Company \_\_\_\_\_

### 5.2.3 Login data, read access

User \_\_\_\_\_  
 Password \_\_\_\_\_  
 Company \_\_\_\_\_

## 5.3 Alarms with confirmation

The data related to the alarms and confirmations is displayed via the *Confirmations* menu, *MAP / Alarms* tab.

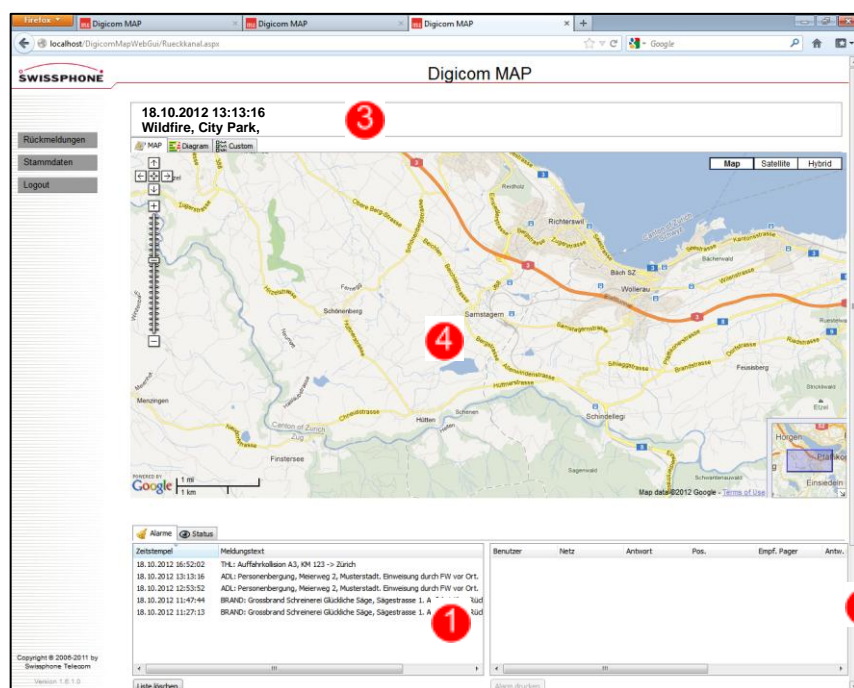



Fig. 5: Display of the alarms and confirmations


- 1 List of the registered alarms
- 2 List of the confirmations for the alarm selected on the left
  - ✓ Positive answer
  - ✗ Negative answer
  - A position exists/has been confirmed

Rec. pager: RES.Q timestamp showing when the alarm was received  
 Answ. pager: RES.Q timestamp showing when the answer was sent  
 Rec. server: Timestamp showing when the confirmation of receipt was received  
 Answ. server: Timestamp showing when the answer was received

③ Alarm display: Timestamp and text of the alarm selected below

④ Map: Forces displayed with existing position for the alarm selected below

 Last measured position of the forces with positive answer

 Last measured position of the forces with negative answer

## 5.4 Status queries and status messages

The groups and the status data are displayed via the *Confirmations* menu, *MAP / Status* tab.

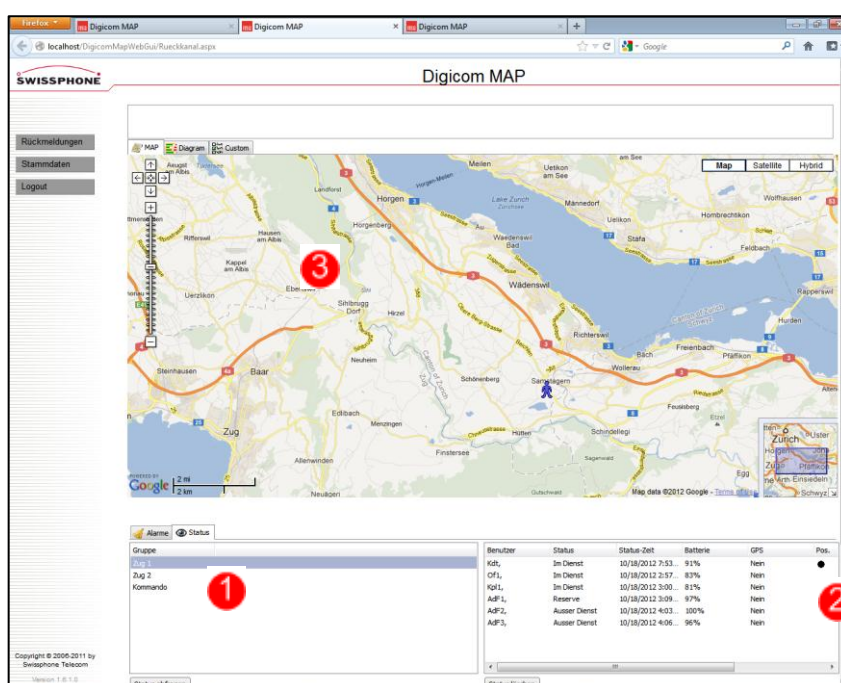


Fig. 6: Status display

① List of the registered groups

② List of the current statuses for the group selected on the left

Status / Status-Time

Battery: Battery charge status

GPS Yes: GPS module is installed and is working correctly

GPS No: No GPS module installed, module is switched off or faulty

● A position exists/has been confirmed

Pos.-Time: Time when the confirmed position was measured



3 Map: Forces displayed with existing position for the group selected on the left



Last measured position of the forces, position is 0 ... 15 min old



Last measured position of the forces, position is 15 min ... 24h old



Last measured position of the forces, position is older than 24h

#### 5.4.1 Exporting the status messages

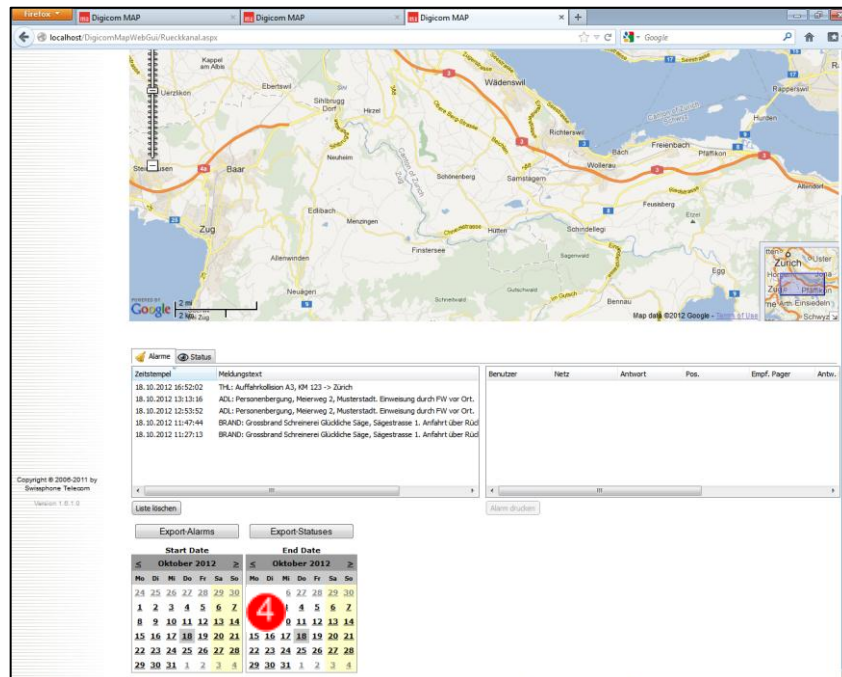


Fig. 7: Export function with calendar

4 Export operations are executed by pressing *Export*.

The status list can be exported and saved if required. Data is exported in XML format in order that it can be imported easily into other systems.

The correct data format can be validated by means of an XSD Schema file.

The XML files can also be imported into MS Excel etc.



The status messages do not have a history. Only the existing, current profiles can therefore be viewed and saved. It is therefore not possible to find out retrospectively when which profile was used.

## 5.5 Alarm messages

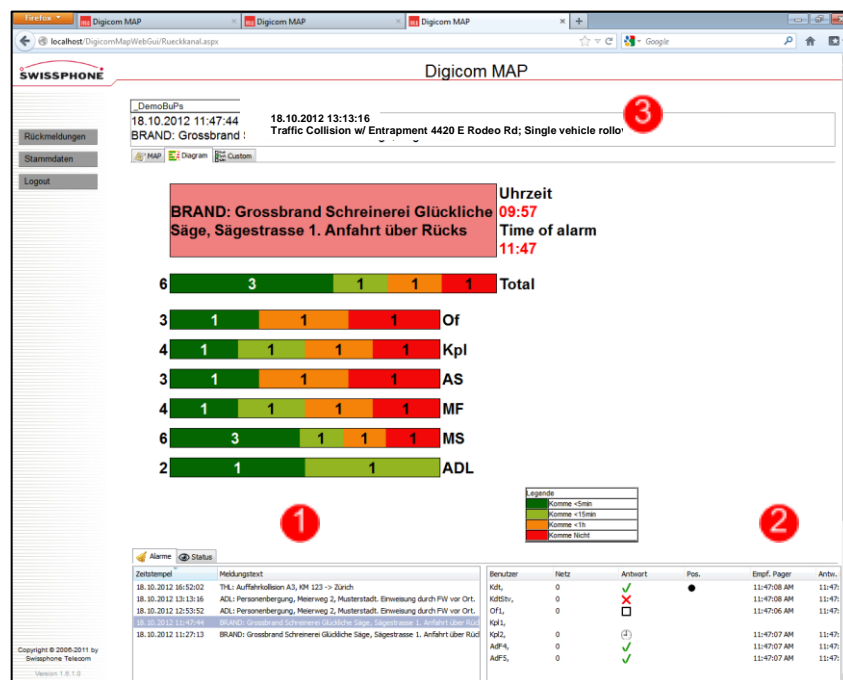


Fig. 8: List of alarms (overview)

A list of previous alarms, including technical and tactical responses, can be found via the *Confirmations* menu, *Diagram* tab.

- 1 List of the registered alarms
- 2 List of the confirmations for the alarm selected on the left
  - ✓ Positive answer
  - ✗ Negative answer
  - A position exists/has been confirmed

Rec. pager: RES.Q timestamp showing when the alarm was received  
 Answ. pager: RES.Q timestamp showing when the answer was sent  
 Rec. server: Timestamp showing when the confirmation of receipt was received  
 Answ. server: Timestamp showing when the answer was received

- 3 Alarm display: Timestamp and text of the alarm selected below

## 5.5.1 Exporting the alarm list

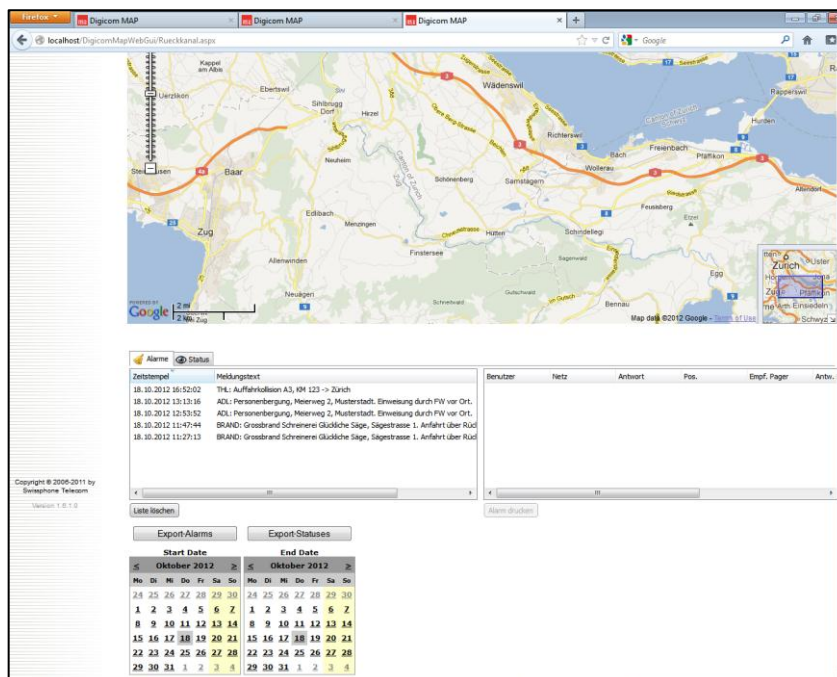


Fig. 9: Export of alarm list

Export operations are executed by pressing *Export*.

The alarm list can be exported and saved if required. Data is exported in XML format in order that it can be imported easily into other systems.

The correct data format can be validated by means of an XSD Schema file.

The XML files can also be imported into MS Excel etc.

## 5.6 Strength message/availability report

Press *Strength analysis* on the *Confirmations* menu, *Custom* tab to access the alarm display with strength message.

### 5.6.1 Strength message

In the event of an alarm, the strength message for the defined period is shown (see Section 7.4.1)

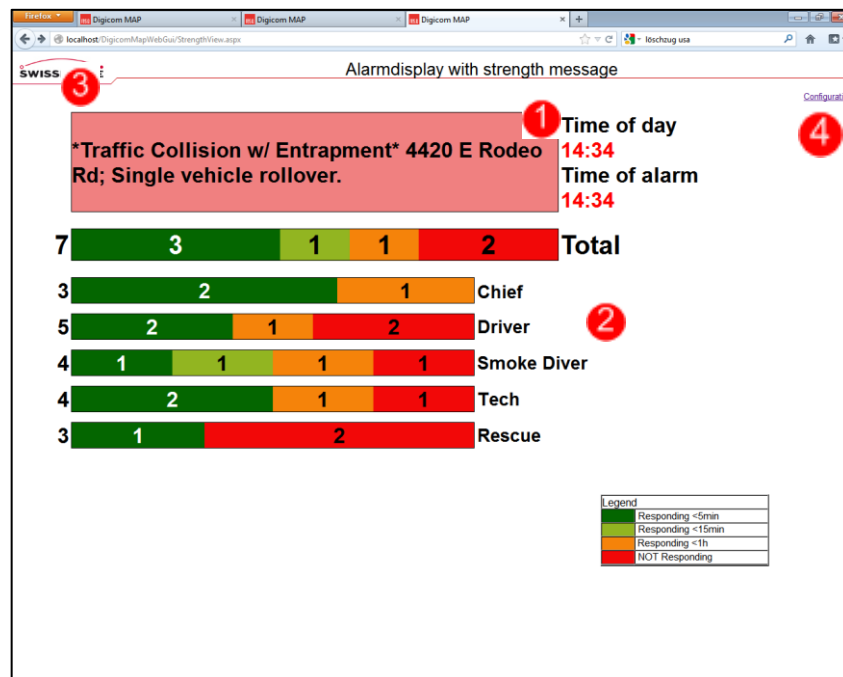


Fig. 10: Alarm display with strength message

- 1 Alarm display: Timestamp and text of the alarm selected below
- 2 Bar chart
  - Top bar: Overall analysis of the current alarm
  - Bottom bar: Analysis of the current alarm by function group of the forces. Polyvalent forces are displayed multiple times
  - Legend: Matches the definition of the replies to the colors defined
- 3 Click on the Swissphone logo to close this display.
- 4 Configure the size of the bar chart by clicking on the hyperlink. A bigger text factor results in a smaller bar chart.
 

The settings are stored locally by using cookies. Therefore, the layout of this page can be configured for each screen used separately.

## 5.6.2 Availability report

If no alarms are pending, the station display shows the current availability of the forces.

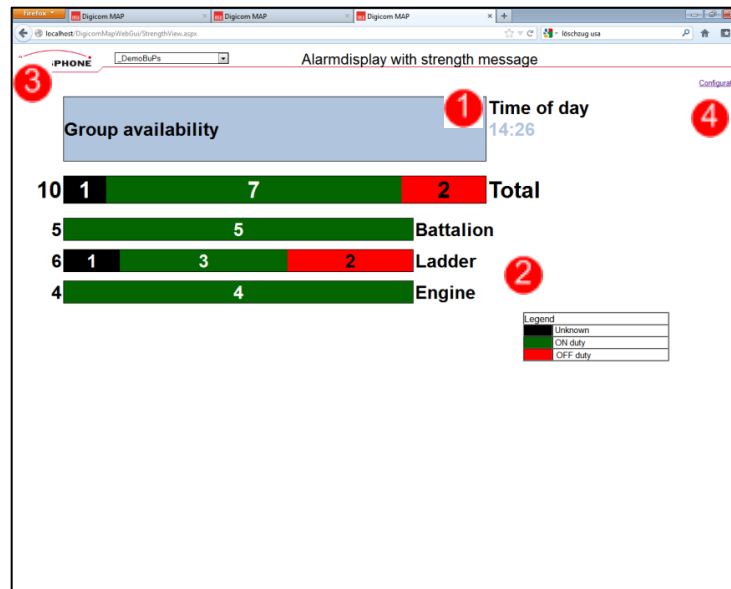


Fig. 11: Alarm display with availability report

- 1 Availability display
  - 2 Bar chart
    - Top bar: Overall analysis of the current availability
    - Bottom bar: Analysis of availability by function group of the forces Polyvalent forces are displayed multiple times
    - Legend: Matches the definition of the replies to the colors defined
  - 3 Click on the Swissphone logo to close this display.
  - 4 Configure the size of the bar chart by clicking on the hyperlink. A bigger text factor results in a smaller bar chart.
- The settings are stored locally by using cookies. Therefore, the layout of this page can be configured for each screen used separately.

## 6. Master data management

Master data management can be accessed via the *Master data* menu.

If the strength message is currently being shown, the administration user interface is accessed by clicking on the Swissphone logo.

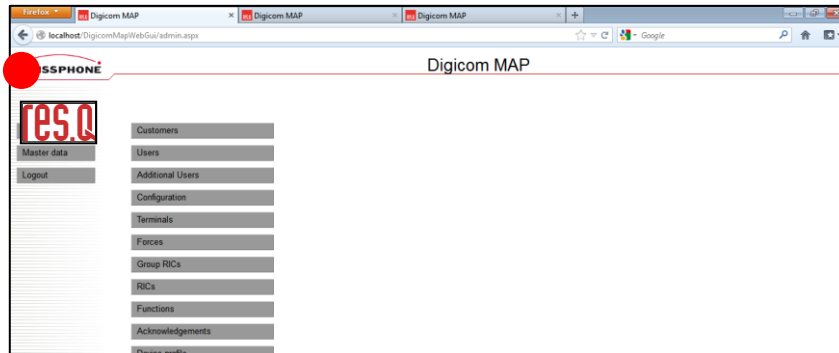


Fig. 12: Excerpt from the master data management menu

Master data management provides functions for data management in connection with the following areas. Various different functions are available, depending on the user rights.

Function	Super user	Administrator	Write	Read
<b>Confirmations</b>	●	●	●	
<b>Master data</b>	●	●	●	
<b>Logout</b>	●	●	●	●
<b>Customers</b>	●			
<b>Users</b>	●	●		
<b>Additional users</b>	●			
<b>Configuration</b>	●	●		
<b>Terminals</b>	●	●		
<b>Forces</b>	●	●	●	
<b>Group RICs</b>	●	●	●	
<b>RICs</b>	●	●	●	
<b>Functions</b>	●	●	●	
<b>Acknowledgements</b>	●	●		
<b>Device profile</b>	●	●		
<b>Possible Alarms</b>	●	●	●	
<b>Networks</b>	●	●	●	
<b>Group Structure</b>	●	●	●	
<b>Import Core Data</b>	●	●		
<b>Search</b>	●			

## 6.1 Digicom MAP management quick reference guide

Detailed descriptions of the individual screens and input fields can be found in the Reference manual section, from page 25.

### 6.1.1 Recommended application workflow

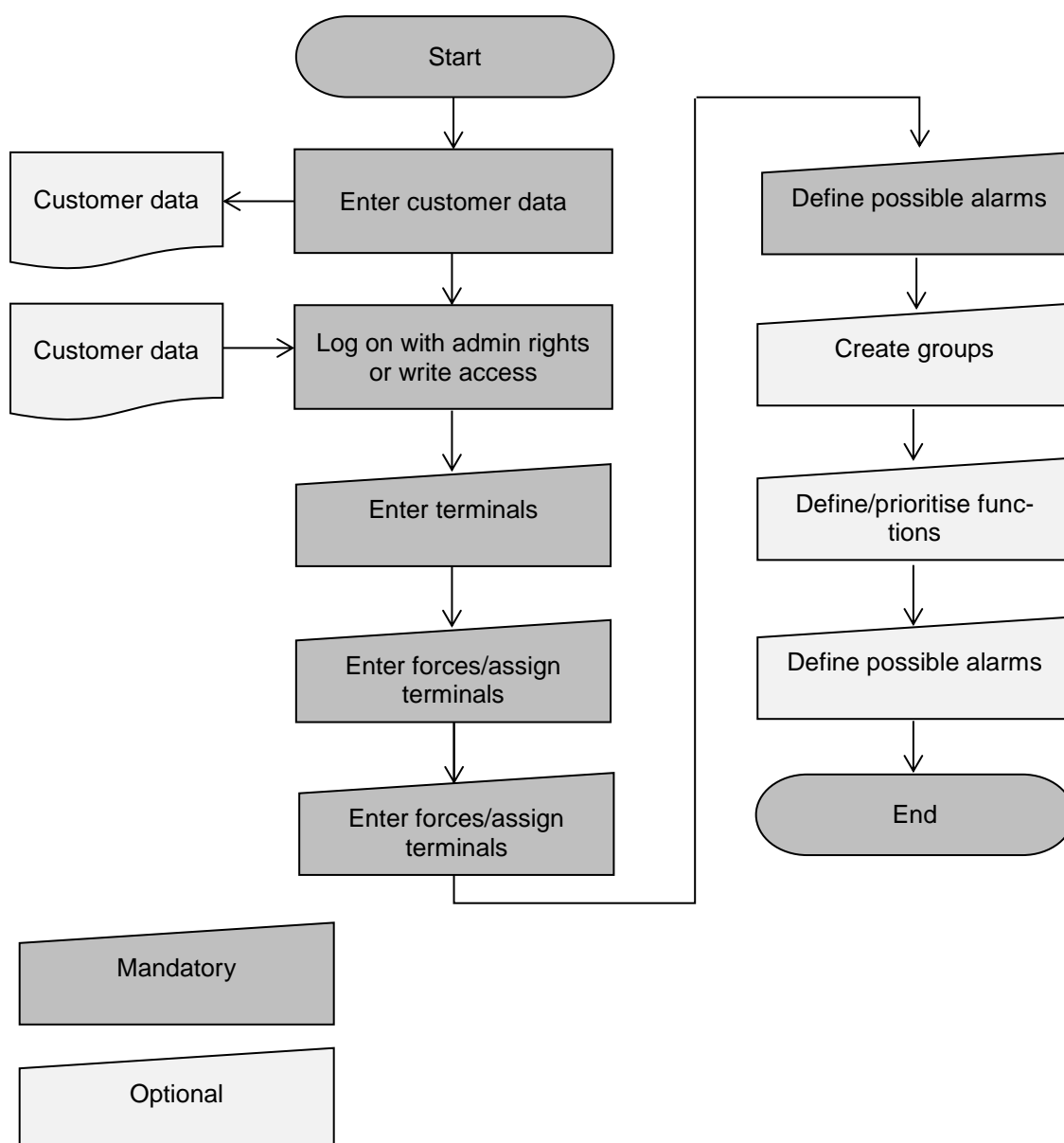


Fig. 13: Recommended Digicom MAP application workflow

## 6.1.2 Preparing personal details and alarm data

The following sections are workflow-dependent and therefore have to be processed in the specified order.

### 6.1.2.1 Managing *terminals* (RES.Q pagers)

Fill in/edit the description, serial number and status

If the GSM number (Phone No.) is also to be entered it must be assigned a number that is unique in the database otherwise the data record is not saved ("Number already exists" error message)

### 6.1.2.2 Managing *forces* (device users)

Last name/first name are needed for assignment to groups (must be unique).

Terminal: RES.Q device numbers that have been created in Section 6.1.2 but have not yet been assigned are displayed here. Select the related number and set the status.

If a force is also to receive strength messages on a terminal (pager or mobile phone) the AdC number or the mobile number also has to be entered.

Other fields, such as Pager, Various and ForeignId are not relevant.

### 6.1.2.3 Creating *functions*

The functions produce the sub bars in the strength message.

The text and the priority must be entered.

Assign the individual functions to the forces. One force can perform several functions.

### 6.1.2.4 *Group RICs* – assigning the RICs and forces to the groups

Setting up groups: Enter the group name, RIC (7-digit) and sub address (capitals)

Other fields, such as AdC, Pattern and ForeignId have no function.

Composing groups: Click on a group, click relevant members on the Non Members table and assign them to the Members table using the (<<) button.

Managers are also to be assigned from the Non Members table. The managers receive strength messages via the mobile phone number entered under *Manage forces*.

### 6.1.2.5 Other functions

The other functions are described in the Reference manual section, from page 25.



## 7. Reference manual

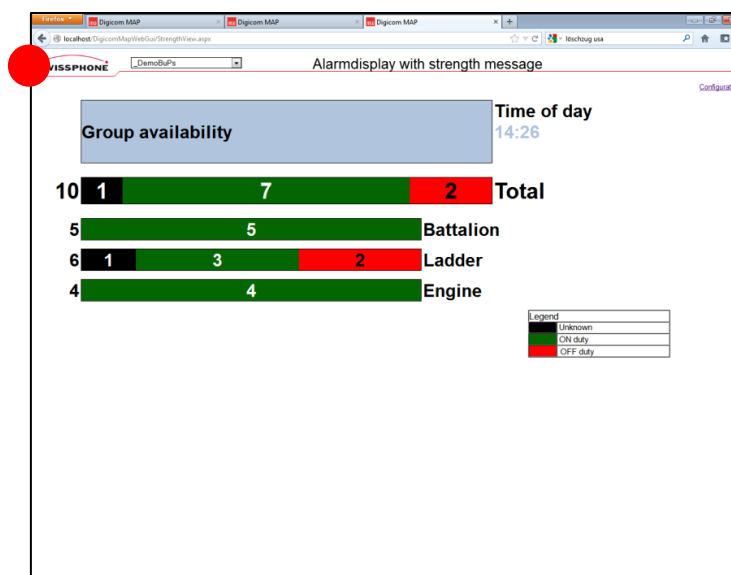


Fig. 14: Alarm display with strength message

The user management screen is shown by clicking on the Swissphone logo.

Depending on the user rights, some menu items may be hidden from the user account or they may be uneditable. More information is provided in Section 6.

### 7.1 Creating a new customer

Creates a new customer (client). At least one customer must be entered in the system.

Fields with an asterisk (\*) are mandatory.



Every customer that is created is automatically also entered as a user. This user has administrator rights.

As managing forces, groups and terminals does not require administrator rights, additional users should be created with restricted rights (read or write access). More information on creating users can be found in Section 0.

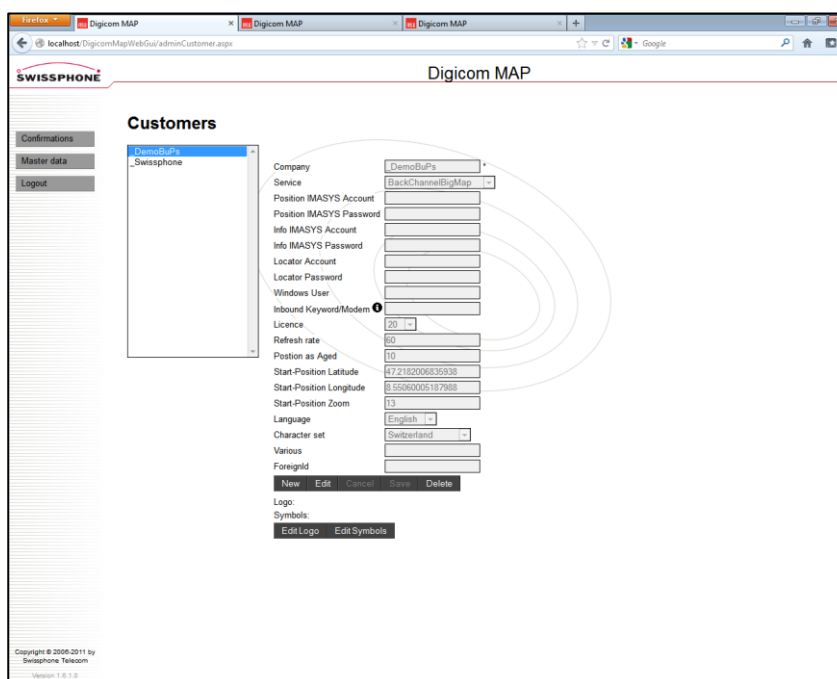


Fig. 15: Customers screen

### 7.1.1 Company\*

The name of the client.

Is required for the *Company* input box when logging on.

Four service options are available that affect the appearance of the *Confirmations* input screen.

### 7.1.2 Service

Defines the startup screen after login.

### 7.1.2.1 BackChannelNoMap

The **MAP**, **Alarms** tab is active. A map is not displayed.

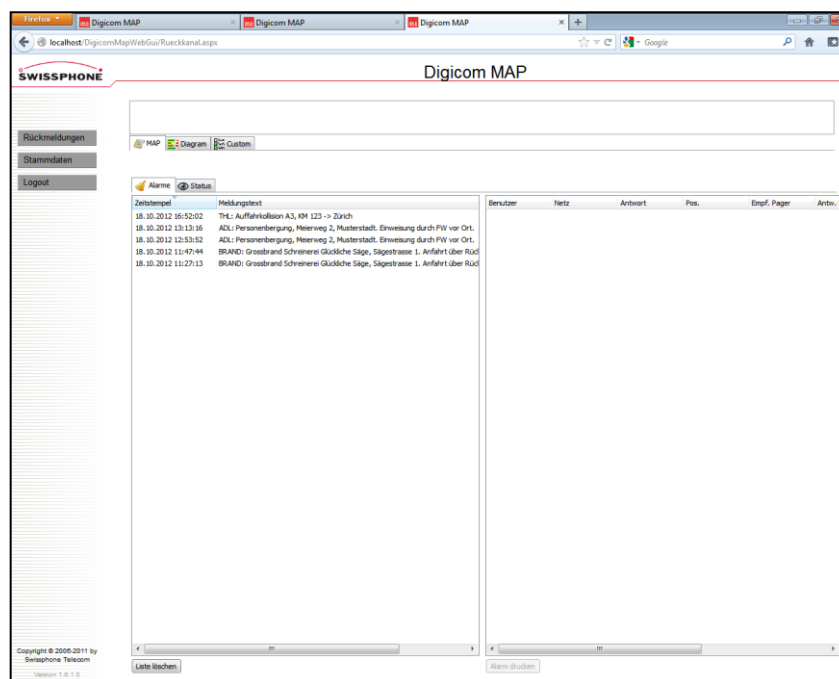


Fig. 16: Backchannel without map

### 7.1.2.2 BackChannelSmallMap

The **MAP**, **Alarms** tab is active. A small section of the map is displayed.

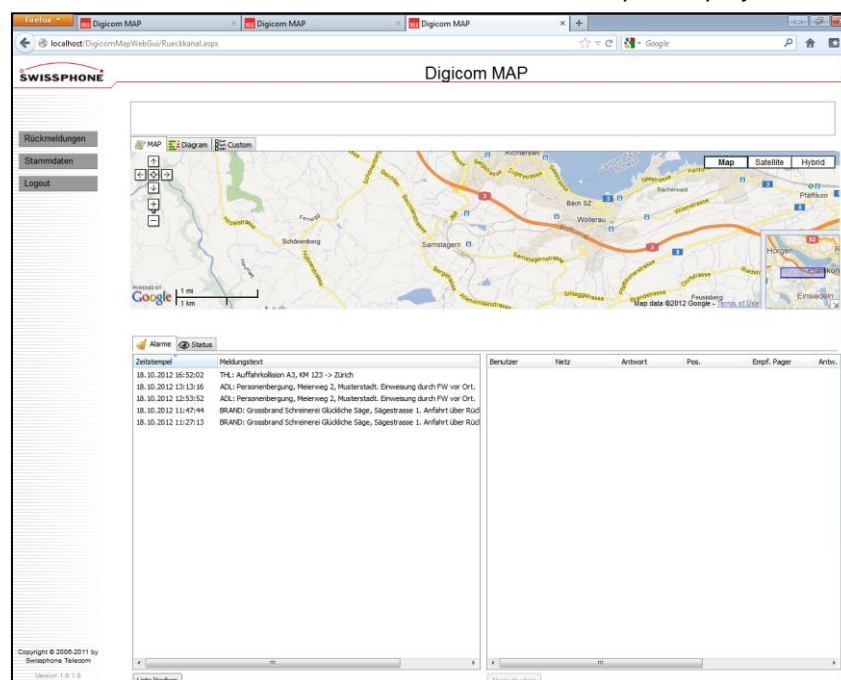


Fig. 17: Backchannel with small map

### 7.1.2.3 BackChannelBigMap

The *MAP*, *Alarms* tab is active. A large section of the map is displayed.

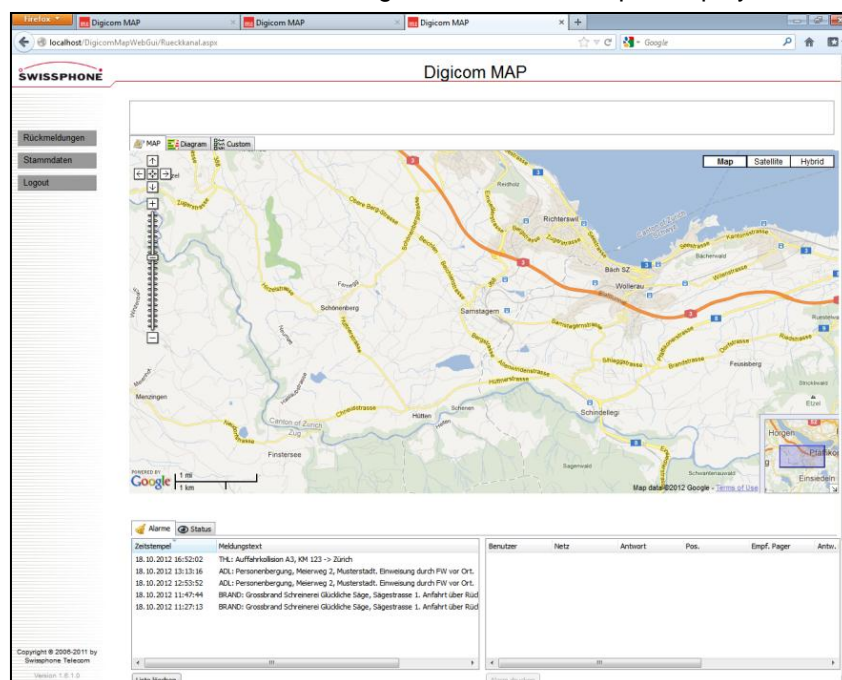


Fig. 18: Backchannel with big map

### 7.1.2.4 StrengthView

The *Custom* -> *Strength Message* display is activated.

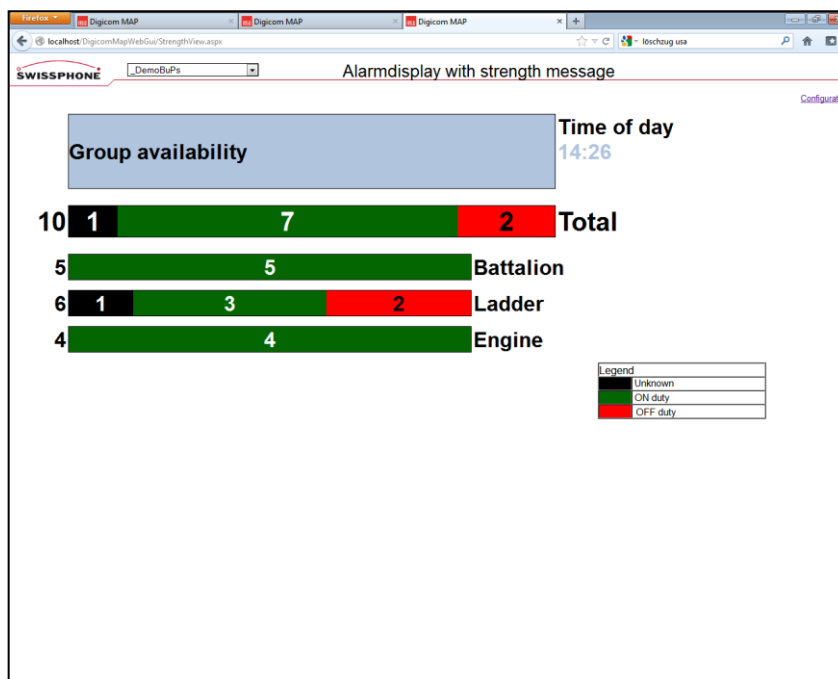


Fig. 19: Strength view display

### **7.1.3 Position IMASYS Account**

Can only be used if a Position IMASYS account with Swissphone Telecom AG exists.

Enter the account data.

With the Position IMASYS account, a message sent via the Info IMASYS account (see Section 0) can be answered.

### **7.1.4 Position IMASYS Password**

Can only be used if a Position IMASYS account with Swissphone Telecom AG exists.

Enter the password for the IMASYS Position account.

### **7.1.5 Info IMASYS Account**

Can only be used if an Info IMASYS account with Swissphone Telecom AG exists.

Enter the account data.

With the Info IMASYS account, strength messages can also be sent to e-mail and SMS accounts as well as to radio paging centres.

### **7.1.6 Info IMASYS Password**

Can only be used if an Info IMASYS account with Swissphone Telecom AG exists.

Enter the password for the IMASYS Position account.

### **7.1.7 Locator Account**

Can only be used if a Locator IMASYS account with Swissphone Telecom AG exists.

Enter the account data.

With the Locator IMASYS account, the receiver can be located via triangulation and the approximate position can be identified.

### **7.1.8 Locator Password**

Can only be used if an Info IMASYS account with Swissphone Telecom AG exists.

Enter the password for the IMASYS Position account.

### **7.1.9 Windows user**

For information only.

### **7.1.10 Inbound Keyword/Modem**

Can only be used if an IMASYS account with Swissphone Telecom AG exists.

The data received on IMASYS is assigned to the organisation on the basis of this keyword.

### **7.1.11 License**

The number of licenses has a direct effect on the number of possible users within the organisation.

### 7.1.12 Refresh Rate

The refresh rate specifies the number of seconds after which the station display is refreshed. A very fast refresh rate places a very high load on the connected PC.

### 7.1.13 Position as aged

If position reporting is switched on, the reported position is deemed up-to-date within the set time.

### 7.1.14 Start Position Latitude / Longitude / Zoom\*

Defines the coordinates of the start location to be shown on the map; usually the customer's locality. The zoom determines the map resolution.

The coordinates are entered with decimals.



The coordinates entered are shown in the top left-hand corner of the map section. If the start position is to be shown approximately in the middle the empirical values in the subsection below should be used.

The following procedure is recommended in order to identify the coordinates of the required location

1. Open Google Maps with the web browser
2. Enter the required location
3. Select the location using the right-hand mouse button (*What's here?*)
4. Read off the coordinates from the input field, accurate to four decimal points

The additions are calculated for full HD resolution (16:9).

#### 7.1.14.1 Large map window, 5km grid (Start Position Zoom: 10)

Addition to latitude: +0.23

Addition to longitude: -1.1

#### 7.1.14.2 Large map window, 1km grid (Start Position Zoom: 13)

Addition to latitude: +0.025

Addition to longitude: -0.130

### 7.1.15 Language

Determines the Digicom MAP language. The following languages are available

- English
- French
- Italian
- German
- Danish

### 7.1.16 Character set

Determines the POCSAG character set used

- FTZ Germany
- Sprintel
- US ASCII
- Norway Denmark
- Switzerland

- Sweden Finland
- Spain
- France
- Britain
- International
- Italy
- Japan
- Latinamerica
- Hermes
- SWION France
- Slovenia

#### 7.1.17 Various

Field for own notes and comments.

#### 7.1.18 ForeignId

Identifier (ID) from administration software used parallel to Digicom MAP.  
For information only.

#### 7.1.19 Logo

Any logo can be loaded instead of the standard RES.Q logo.  
The graphic should be narrower than 200 pixels. 100 x 150 pixels is recommended.

#### 7.1.20 Symbols

User's own symbols can be added to the symbols available on the *Acknowledgements* screen.

The symbols also appear on the map if GPS is activated on the terminal.

The graphic must be in gif format and comprise 32x32 pixel symbols. White areas are replaced by the status colour and transparent areas remain transparent.

## 7.2 Users

The user can create access to Digicom MAP for additional users.

Fields with an asterisk (\*) are mandatory.

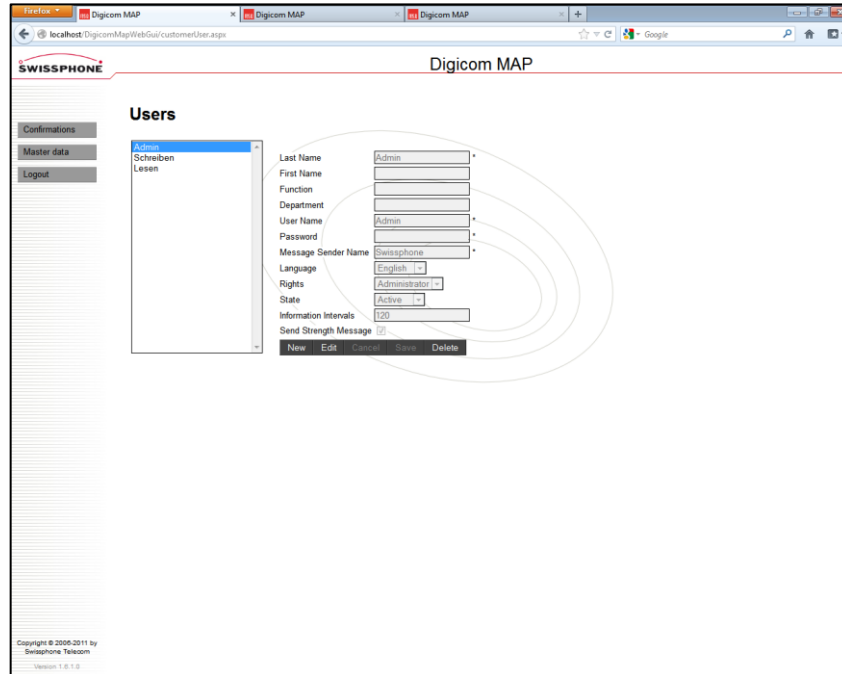


Fig. 20: Customer screen

### 7.2.1 Last Name\*

Last name of the new user.

### 7.2.2 First Name

First name of the new user.

### 7.2.3 Function

Function held by the new user within your organisation.

### 7.2.4 Department

Department within your organisation that the new user works for.



### 7.2.5 User Name\*

New user's user name.

The user logs on with the user name on the log on screen. Mandatory.

### 7.2.6 Password\*

Password that the client must enter in order to log on.

### 7.2.7 Message Sender Name

Can only be used if an Info IMASYS account with Swissphone Telecom AG exists.

Defines the SMS originator (sender) of the information.

A maximum of 11 characters long, alphanumeric values are also permitted. Alphanumeric values are not transferred via the landline network; in this case purely numerical values are to be used.

### 7.2.8 Language

Determines the GUI language.

### 7.2.9 Rights

Defines the rights of the newly created user.

#### 7.2.9.1 Read

A user with read access can open all confirmation displays

- Alarms
- Status
- Alarm display with strength message
- Logout

#### 7.2.9.2 Write

A user with write access can carry out the following activities in addition to the read access activities

- Delete the alarm list
- Trigger status queries  
(can only be used in Switzerland with the Digicom MAP service from Swissphone)
- Delete the status list

Furthermore, users with write access can also create, edit and delete the following entries via master data management

- Forces
- Group RICs
- RICs
- Functions
- Possible Alarms
- Networks
- Group Structure

#### 7.2.9.3 Administrator

In addition to *Write* access activities, the administrator can also create, edit and delete the following entries via master data management

- Users
- Configuration
- Terminals
- Acknowledgements
- Device profile
- Import Core Data

#### 7.2.10 Status

Defines the user's status.

##### 7.2.10.1 Active

An active user can use the system in line with his/her user rights

##### 7.2.10.2 Blocked

A blocked user can no longer log on to the system. However his/her master data remains in the system. This makes it possible to block a user account for a certain period of time, for example during an extended holiday.

#### 7.2.11 Information Intervals

Can only be used if an Info IMASYS account with Swissphone Telecom AG exists.

Defines the time period in [s] after which the user is to be informed of the current status of the groups.

#### 7.2.12 Send Strength Message

Ticking the checkbox activates sending the strength message.

### 7.3 Additional users

*Users* that have already been entered can be assigned an additional client.

This function can be used when operation Digicom MAP in Command and Control Center: The CCC can add the monitored organisations by using the feature *additional users*. Thus, showing all responses from the different organisations on its own screen.

## 7.4 Configuration

Basic Digicom MAP display characteristics are configured.

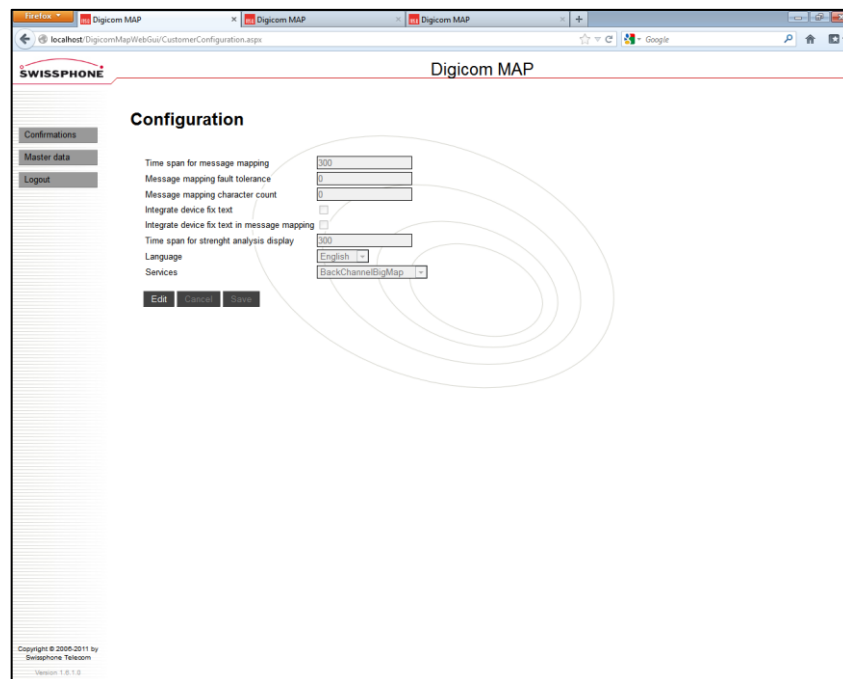


Fig. 21: Configuration screen

### 7.4.1 Time span for message mapping

Tactical responses with the same alarm text that are received within this time span in [s] are assigned to the same incident.

### 7.4.2 Time span for strength analysis display

Time span in [s] that the alarm message is shown on the alarm display for. After this time span has elapsed, the theoretical availability of the forces (technical response) is shown on the alarm display.

### 7.4.3 Language

Determines the language of the titles on the alarm display.

- English
- French
- Italian
- German
- Danish

## 7.5 Terminals

The RES.Qs used are entered in the terminal management section. Fields with an asterisk (\*) are mandatory.

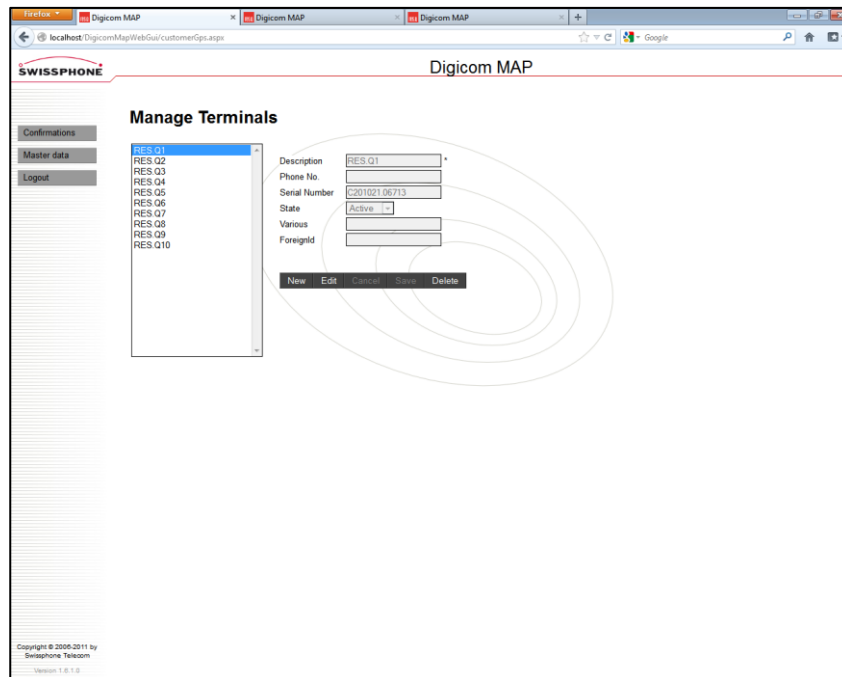


Fig. 22: *Manage Terminals* screen

### 7.5.1 Description\*

Each device can be given its own name. For example, this could be the organisation's own inventory number.

The device description is used when the terminal is assigned to a force.

### 7.5.2 Phone No.

Telephone number of the SIM card in the RES.Q.

The field is for information purposes only and does not affect the function of the pager or Digicom MAP.

### 7.5.3 Serial Number

The serial number of the RES.Q is entered in this field. The serial number is located under the cover of the battery compartment, labelled S/N.

### 7.5.4 Status

The status provides information on the current status of the device.

#### 7.5.4.1 Active

The device is active and is being used.

#### 7.5.4.2 Inactive

The device is inactive and is not being used at the moment. This function can be used, for example, if the RES.Q is not currently being used as it is not assigned to a force.

### 7.5.5 Various

Field for own notes and comments.

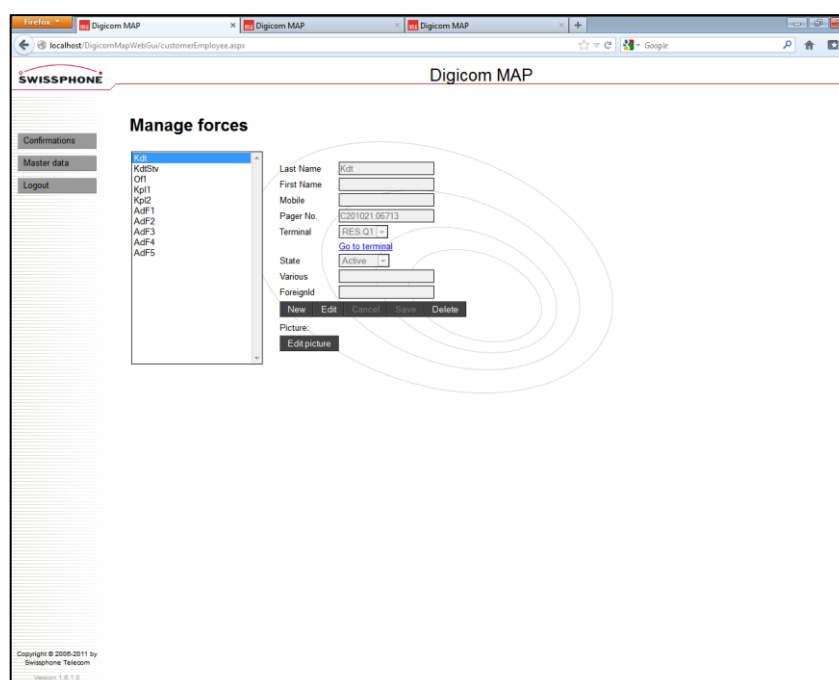
### 7.5.6 ForeignId

Identifier (ID) from administration software used parallel to Digicom MAP.

For information only.

## 7.6 Forces

All the forces that carry a RES.Q are entered in the forces management section. This screen is also used to assign a defined terminal (RES.Q) to the forces.



The screenshot shows the 'Manage forces' screen in the Digicom MAP application. On the left, there is a sidebar with 'Confirmations' and 'Master data' sections. The 'Master data' section has a 'Logout' button. The main area is titled 'Manage forces'. It features a list of forces on the left, including 'KdStv', 'Q11', 'Kp11', 'Kp12', 'AdF1', 'AdF2', 'AdF3', 'AdF4', and 'AdF5'. The 'KdStv' force is selected. To the right of the list is a form for editing the selected force. The form includes the following fields: 'Last Name' (KdStv), 'First Name' (Q11), 'Mobile' (Kp11), 'Pager No.' (C20102106713), 'Terminal' (RES.Q11), 'State' (Active), 'Various' (empty), and 'ForeignId' (empty). Below the form are buttons for 'New', 'Edit', 'Cancel', 'Save', and 'Delete'. There is also a 'Picture' field with an 'Edit picture' button. The background of the form area shows a map with concentric circles. At the bottom left, there is a copyright notice: 'Copyright © 2008-2011 by Swissphone Telecom' and 'Version 1.0.1.0'.

Fig. 23: *Manage Forces* screen

### 7.6.1 Last Name

Last name of the force.

### 7.6.2 First Name

First name of the force.

### 7.6.3 Mobile

Mobile number that a strength message is to be sent to if the force is entered as a manager in the *Group RICs* settings (see Section 0). The information is sent via SMS.

In Switzerland, the number of the AdC can also be entered as an alternative.

### 7.6.4 Pager No.

Organisation's internal inventory number of the pager.

#### 7.6.5 Terminal

This drop down menu lists all the terminals (RES.Qs) that have been entered but have not yet been assigned to a force. Select a device from this list to assign it to the force.

#### 7.6.6 (Link) Go to terminal

Goes directly to the *Terminals* input screen. The terminal that is assigned to the currently selected force is displayed.

#### 7.6.7 Status

The status provides information on the current status of the force.

##### 7.6.7.1 Active

The force is actively assigned within the organisation.

##### 7.6.7.2 Inactive

The force is currently not active within the organisation. This function can be used, for example, if the force is currently on holiday.

#### 7.6.8 Various

Field for notes and comments.

#### 7.6.9 ForeignId

Identifier (ID) from administration software used parallel to Digicom MAP.

For information only.

## 7.7 Group RIC

The organisation's alarm groups are entered on this screen. With fire services they are usually alarm or emergency response groups, with rescue services they are often vehicle crews and with the police they could be groups of officers with special skills (e.g. dog handlers).

Functions that are (can) be carried out by individual persons are to be entered under *Functions*.

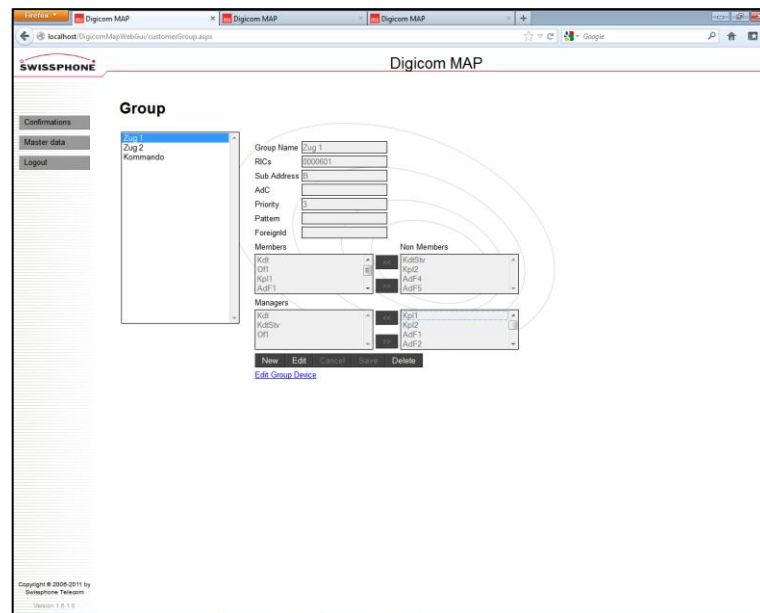


Fig. 24: Group RICs screen

### 7.7.1 Group Name

The group name shows which group is to be sent an alarm with the parameters defined below.

### 7.7.2 RICs

Enter the RIC (Radio Identification Code) of the group involved.



The RIC entered must have 7 digits. If an RIC has less than 7 digits, "0"s (zeros) must be added as required. For example, if the RIC 6000 is to be assigned, the value 0006000 must be entered into the field. Otherwise the strength message display will not work.

### 7.7.3 Sub Address

Enter the sub address belonging to the RIC (value A-D).

### 7.7.4 AdC

The address code, also known as paging number, has 10 digits. The first three digits identify the paging system and the last seven digits represent the paging number that identifies the subscriber.

The transmitted data is converted into a POCSAG message and sent by the radio paging centre.

The AdC of the group in question is available from your network provider.

### 7.7.5 Pattern

The confirmation can be customised. The following wildcards are used

%1 = Responding

%2 = Total number of forces the alarm was sent to

%3 = Alarm message

For example, if a simple strength message is to be sent the entry will be as follows

%1 of %2 are responding.

If the alarm text is also to be sent to ensure clear assignment the entry will be as follows

%1 of %2 are responding to %3.

### 7.7.6 ForeignId

Identifier (ID) from administration software used parallel to Digicom MAP.

For information only.

### 7.7.7 Entering members

The members of the relevant groups are defined. All the forces entered are shown in the field on the right. To add them to a group, the relevant forces must be selected in the *Non Members* section and copied into the Members group using the << button.

Forces can be members of several groups.

Proceed in reverse order to remove a force from the group.

If the force is to receive strength messages it must be entered as a manager, see Section 0.

### 7.7.8 Entering managers

Forces, usually managers, can have strength messages sent to their mobile phone (in Switzerland to their pager as well, via AdC).

If these forces are also to appear in the strength message (bar chart) they must be entered as members and as managers.

Forces that are to be informed but are not to be part of the strength message are only to be entered as managers.



Confirmation is only given via the pager if the person assigned under Manager has previously been assigned a valid *Mobile* number on the *Manage forces* screen (see Section 7.6.2).



### 7.7.9 (Link) Edit Group Device

Accesses the settings for pager user status queries. This function only works within Switzerland on the Telepage network.

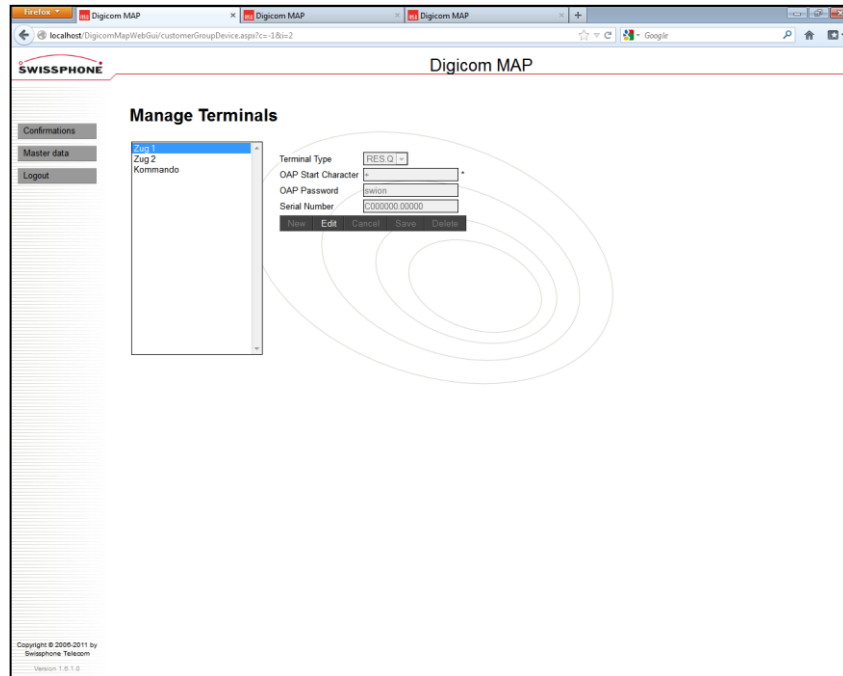


Fig. 25: *Manage Terminals* screen



Use outside of the Telepage network (CH)

This setting has no influence on the function of your terminals or Digicom MAP. Digital alerting still works correctly.

## 7.8 RICs

The personal RICs (Radio Identification Codes) are managed on this screen.



If individual persons receive alarms via their personal RIC the alarm message is shown on the station display. However, strength messages are not shown. If strength messages are also to be received with individual alarms the person in the group RIC must represent a group with only one member.

### 7.8.1 RICs

Enter the personal RIC (Radio Identification Code) of the force involved.



The RIC entered must have 7 digits. If an RIC has less than 7 digits, "0"s (zeros) must be added as required. For example, if the RIC 6000 is to be assigned, the value 0006000 must be entered into the field. Otherwise the strength message display will not work.

## 7.8.2 Sub Address

Enter the sub address belonging to the RIC (value A-D).

## 7.8.3 Entering members

The member (force) of the relevant RIC is defined. All the forces entered are shown in the field on the right. To assign the individual RIC to the force, the relevant force must be selected in the *Non Members* section and copied into the Members group using the << button.

Forces can have several individual RICs assigned to them.

Proceed in reverse order to remove a force from the group.

## 7.9 Functions

Functions can be assigned to the forces in the organisation. These functions are not dependent on the forces being members of defined groups.

The functions defined here are subsequently shown on the alarm display in connection with the strength message.

Usually, the training (qualifications) and any ranks are entered as functions with fire services.

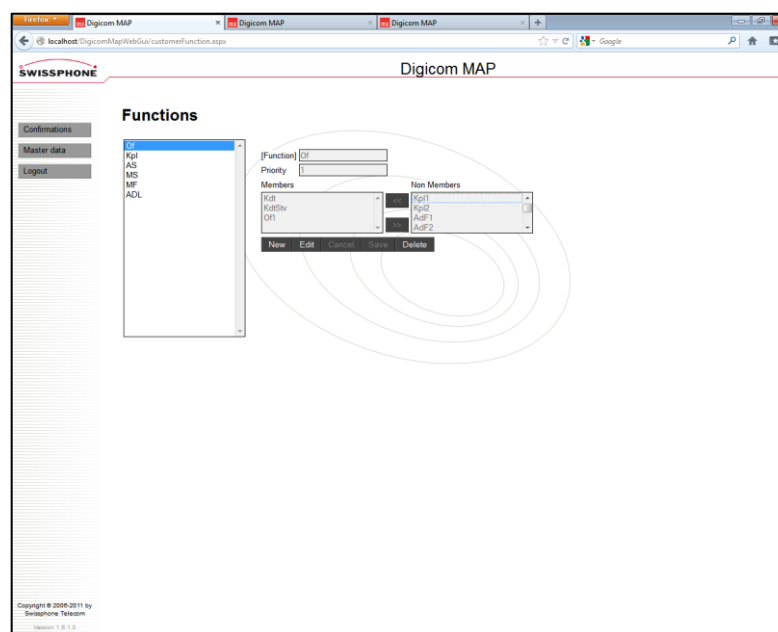


Fig. 26: Functions screen

### 7.9.1 Function

Defines the required function.

## 7.9.2 Priority

Determines the priority of the function. If a user has several functions, Digicom MAP attempts to assign this user the function with the highest priority that the target staffing has not yet been achieved for.

"1" is the highest priority.



If no possible alarms are defined (see Section 7.12) the functions are not prioritised as there is no target staffing information.

Without prioritisation, the strength message shows the sum of the available forces in the overall analysis. However, the analysis of the function groups shows all possible staffings, which can result in forces being named several times.

## 7.9.3 Entering members

Defines the members of the relevant groups. All the forces entered are shown in the field on the right. To add them to a group, the relevant forces must be selected in the *Non Members* section and copied into the Members group using the << button.

Forces can be members of several groups.

Proceed in reverse order to remove a force from the group.

## 7.10 Acknowledgements

The possible acknowledgements from the RES.Qs are defined on this screen.



Index	Active	Text	Symbol	Color	Unavailable
1	<input checked="" type="checkbox"/>	Responding <5min	✓	RD46600	<input type="checkbox"/>
2	<input checked="" type="checkbox"/>	Responding <15min	✓	RD29521	<input type="checkbox"/>
3	<input checked="" type="checkbox"/>	Responding <1h	✓	RD5830A	<input type="checkbox"/>
4	<input checked="" type="checkbox"/>	NOT Responding	✗	RD20806	<input checked="" type="checkbox"/>
5	<input type="checkbox"/>		✓	RD00000	<input type="checkbox"/>
6	<input type="checkbox"/>		✓	RD00000	<input type="checkbox"/>
7	<input type="checkbox"/>		✓	RD00000	<input type="checkbox"/>
8	<input type="checkbox"/>		✓	RD00000	<input type="checkbox"/>

New Edit Cancel Save Status

Fig. 27: Acknowledgements screen



The definition of the possible acknowledgements in Digicom MAP does not affect the possible acknowledgements in the RES.Q.

It is imperative that indexes of the confirmations in Digicom MAP are congruent with the indexes of the confirmations in the RES.Q configuration. Otherwise there will be incorrect information in Digicom MAP.

	Text	Index	Active	Text	Symbol	Color
1	Komme < 5min	1	<input checked="" type="checkbox"/>	Komme < 5min	✓	#00FF00
2	Komme < 15min	2	<input checked="" type="checkbox"/>	Komme < 15min	+	#FFEE00
3	Komme > 15min	3	<input checked="" type="checkbox"/>	Komme > 15min	↓	#FFB300
4	Komme NICHT	4	<input checked="" type="checkbox"/>	Komme NICHT	✗	#FF0000
5		5	<input type="checkbox"/>		✓	#000000
6		6	<input type="checkbox"/>		✓	#000000
7		7	<input type="checkbox"/>		✓	#000000

Fig. 28: Assignment in Digicom MAP

Fig. 29: Assignment in the PSW

### 7.10.1 Index

If no entries exist all indexes are -1. However they are changed to the correct values automatically when the entries are created.

### 7.10.2 Active

Activates the entry.

### 7.10.3 Text

Message text that is shown in the Digicom MAP key.

### 7.10.4 Symbol

Symbol that characterises the acknowledgement. Is shown on the table.

### 7.10.5 Color

RGB colour.

Can either be entered directly or defined using a colour palette.

### 7.10.6 Unavailable

Answers that have ticked this checkbox are rated not available with prioritisation of the functions under *Possible Alarms* (see 7.12).

## 7.11 Device profile

The possible profiles of the RES.Qs are defined on this screen.

The strength message is displaying the theoretical available forces at the very moment. The information regarding the availability is obtained from the active pager profile.

### 7.11.1 Deactivate strength analysis display

By enabling this option the strength display will be deactivated on the custom screen.

While not showing any alert messages, the display shows a white background.

### 7.11.2 ID

The ID defines the sequence of the profile list. The ID used in Digicom MAP has to be the same ID as used in the PSW-Plus.

### 7.11.3 Text

Defines the text in the legend on the custom screen. This text must match the text used in the PSW-Plus exactly.

### 7.11.4 Color

Color value in RGB.

The value can be entered directly or it can be defined by using the color palette.

The definition of the possible profiles in Digicom MAP does not affect the possible profiles in the RES.Q.

It is imperative that indexes of the profiles in Digicom MAP are congruent with the indexes of the profiles in the RES.Q configuration. Otherwise there will be incorrect information in Digicom MAP.



Id	Text	Farbe
0	Verfügbar	#00FF00
1	Verfügbar >1h	#FFB300
2	Abwesend	#FF0000
3	Pikett-Dienst	#0000FF
4		White
5		White
6		White
7		White

Neu Bearbeiten Abbrechen Speichern Löschen

Fig. 30: Assignment in Digicom MAP

	Verfügbar	Name	Profil Typ	Aktiviert
1	✓	Verfügbar	Wahl-Profil	✓
2	✓	Verfügbar > 1h	Wahl-Profil	
3	✓	Abwesend	Wahl-Profil	
4	✓	Pikett-Dienst	Schalt-Profil	✓
*	<< Hier klicken für neuen Eintrag >>			

Fig. 31: Assignment in the PSW

## 7.12 Possible Alarms

Defining possible alarms makes it possible to specify target staffing for the alarm in question.

Forces that send a positive response in the event of an alarm are assigned in accordance with their possible function. Digicom MAP automatically attempts to staff the functions with the highest priority first. If the target staffing of a function has been achieved the resources are assigned to priority no. 2. Therefore Digicom MAP can be used at any time to find out whether resources sufficient for dealing with the incident are at the scene. One can also see whether these resources have the relevant qualifications needed to deal with the incident.

This function can also be used to set the way the alarm is shown on the display.

### 7.12.1 Group Name

The groups defined on the *Group RICs* screen are selected.

### 7.12.2 RICs

Shows the RICs used in the selected group.

### 7.12.3 Alarm Text

If the same keywords are always used in alarms (e.g. small fire, large fire or TH1, TH2 etc.) Digicom MAP can determine deployment on the basis of these texts. A target strength can then be defined for the incident.



If a target staffing of "0" is filed for a function the status of the confirmation is not updated on the strength message display and the status of the bar remains *Unknown status* (grey). However, the total number of confirmations is still correct.



If fixed alarm keywords are not used a space can be entered. Disadvantage: The message can then not be seen in the selection box on the left. Several groups can nevertheless be defined and saved. The groups selection also still works correctly.

### 7.12.4 Timeout

The timeout defines how long the alarm message and the confirmations are shown on the display for. The time is specified in seconds.

For example, if an alarm is to be shown on the display for 15 minutes the timeout must be set to  $60s * 15 = 900$ . The unit [s] must not be entered.

### 7.12.5 Functions

The target strengths are defined by assigning the functions to the relevant alarm text. Once a possible function has been selected it is activated using the << pushbutton. A new field, *Strength*, appears. The target staffing of the selected function is to be defined here.



If a target staffing of "0" is filed for a function the status of the confirmation is not updated on the strength message display and the status of the bar remains *Unknown status* (grey). However, the total number of confirmations is still correct.

## 7.13 Networks

If several redundant alarm networks are operated, this screen can be used to assign the IDs to the networks.

The *Map / Alarms* tab shows which network the alarm was sent in.

This function is not used in Germany at the present time.

### 7.13.1 Network Name

Defines the name of the network.

### 7.13.2 Number

Defines the ID of the network.

## 7.14 Group Structure

The group structure shows all the forces entered, the RICs assigned to them and the assigned functions in a simple table.

### 7.14.1 Export

All the data relevant to the current customer is exported in an XML file. This data, together with the related XSD Schema file, can be imported into MS Excel 2010 and edited.

The data can therefore be imported into other tools or checked during evening duty sessions.

## 7.15 Import Core Data

Provides an import interface for CSV-Files with the following definition:

```
Datenimport (IMASYS Map/Digicom MAP)
Version;1.0.0
```

```
Serienummer;Geraetetyp;Bezeichnung;GSM_Rufnummer;OAP_Rufnummer;System
```

## 7.16 Search

Search screen for targeted searches for

- Serial number
- GSM number
- Force number

## Notes

This image shows a full page of blank graph paper. The grid consists of small, identical squares arranged in a regular pattern across the entire surface. There are no margins, text, or other markings present.



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